## Microminerals in Nutrition

### Essential for Metabolism

Previous to about 1940 little was known regarding the essentiality of minerals in nutrition. In fact, it was a much neglected field of study or research. With the exception of calcium in bone formation, chlorine in hydrochloric acid production, iodine in thyroid activity, and the importance of iron in the formation of red blood cells, medical knowledge was very limited. Even the fact that sodium chloride was essential for life was not fully appreciated. In the fact that during the early thirties twenty was in academia, and the majority of research was achieved by chemists. This is apparently the reason that medical textbooks considered all minerals as "inorganic" ware after they had been burned to ash. Consequently, the fact that iron in the blood was that supplies our body with the vitalized force now known as electrolytes. Modern investigators can appreciate the disadvantages of the ca's scientist and the usual mineral content of the body is three pounds, but, to determine the mineral content. It is quite obvious that, in testing organic matter for minerals by this method, the ones unknown vital forces were destroyed.

Now, with the knowledge we have today, we do not believe that the minerals are the "organic" elements of the body have become a vital physiological force in the body. These availability in food entirely divorces them from comparison with such organic preparations as the vitamins and hormones. Minerals are essential to life and apparently lack the vital electro-energy and magnetism imparted to them by the organic combinations of the vitamins and hormones in living tissue.

### Catalysis

Although iron in quantities, the minerals in relation to all organisms. The organic minerals, and proteins also must be recognized as integral physiological parts of the living body and, in deficiency, an apparently just as subject to death as is the entire organism. Each of the minerals having been shown and is known to be. Everything is involved in some way in this dance. It is sufficient. For example, proteins, among other things, also function as the catalysts of the body. Without the catalytic activity of the Minimum, as development is controlled by the low number, or the one is related to another.

### Macro and Microminerals

Only a few of the over one hundred known elements form the greater amount of organic matter in plants and animals. They are oxygen, carbon, hydrogen, nitrogen, and the mineral materials called calcium, phosphorus, sodium, magnesium, chlorine, iron, and sulphur. Other important minerals raised essentially necessary to animal life are potassium, copper, iodine, manganese, cobalt, zinc, molybdenum, selenium, fluorine, silicon, vanadium, chromium, and tin. This was added in 1939 by the research efforts of Dr. Klaus Schwarz. Professor Dr. Schwarz's work was done at the Institute for Medical Research, Veterans Administration Hospital, Long Island. These minerals are all needed by the body but many needed only in very minute amounts for good health. According to Dr. Schwartz, past methods of investigation were not quite sensitive enough.

### Essentiality

Not all the mineral elements present in plant and animal tissues are essential for life. Even though present and exerting beneficial effects, some elements do not qualify as essential. Occasions can give rise normally in the absence of some one of the essential elements. Such an element is considered essential only if its absence always results in failure of normal function to be reproduced but not otherwise maintained. For example, the element aluminum may change, with further research, as only recently it was found to play a part in mammalian tissue formation.

To discover if an element is really essential to the growth and development of plants or animals, it must be studied in the absence of all other elements that might be present in the body. Only in this way can the element be determined to be essential. The resulting deficiency symptoms are said to be the lack of an essential element to be true deficiency disease. Even though the nutrient in question is present. It may be useless, as the mammalian body, like the plants, has a preference for the form in which it will use the mineral that is presented for general metabolism. For instance, the growth-feak milk contains a colloidal form of a calcium compound that is of a protein nature. Consequently, it is more easily assimilated than the inorganic calcium salts. Proteins are dominated by heat much lower than the VVITH mineral metabolism in the body.

### Catalysts

The macro-elements are complex parts of biochemical reactions. They are present in large quantities (in comparison with the trace or microelements) in the body tissues and are concentrated in the cells of specific work structures. For instance, nitrogen as an integral part of all protein becomes a part of all enzyme systems be cause all enzymes are protein. Phosphorus is necessary for maintenance and growth. Further, besides its protein, all of the enzyme systems isolated to date have been found to contain an organic mineral and a vitamin or vitamin derivative. Sulphur is found in the amino acids, cystine, cysteine, and methionine, and in the hormone insulin. The metallic elements, potassium, sodium, and calcium are high-energy ions. As the chief of these compounds in electrolytes, excellently catalysts have a great influence on all microbes, plants and animals.

Early in 1929, Royal Lee, DDS, coined the word 'catalyst' to represent the organic catalysts which hosted at that time, and which are known today as enzymes. The word catalyst was used in the sense that Berzelius had ratified the understanding of the word catalysis. He wrote in 1836:

> "Natural food factors, or organic activating agents or enzymes are the microminerals, either single or in combinations serve as biological catalysts. Units of body chemistry, regardless of their source or destination, are shuffled and reshuffled, in fact, it is through the catalytic activity of these microminerals that this is done."

It is only recently that some of the minerals, as we have previously mentioned, were found to be essential to life. We believe that this is largely because with recent efforts essential to proper metabolism of vitamins, electrolytes, or possibly some new important physiological function not yet suspected. Rapid strides in new discoveries as to the role of minerals in nutrition are being made daily. Some of the more important recent discoveries are the investigation of the role of iodine in the endocrine glands in water and electrolyte metabolism. Apparently we are approaching the point where we may recognize minerals as the biological level.

### Pure Water in Metabolism

From the earliest times, pure, fresh, drinking water has been recognized as an internal requirement, for inner air as well as outer air. Water is the largest single item in the body, making up 70 per cent of the total weight of the solid foods, and by the elimination of liquids from the body, approximately 4 pints of water per day, or about one volume of extracellular fluid comprising about 22 percent, and the plasma volume 5 percent of the total weight.

Just as the body requires balanced nutrition through amino acids, digestive juices, hormones, minerals, and vitamins, it requires balanced water. Water is found in the various tissues and organs of the body in three compartments. Constituents which are important in excreting or retaining and also maintaining the normal fluid level is the process of "ionic equilibrium."

Any interference with or aggravation of this vital process could be hazardous and promote further ill health. Such a factor is the consumption of water that is not pure and contains undesirable minerals, such as lime, salts, etc. Such minerals are not in the body but may eventually accumulate and cause disease. Water is not a food, and is very well further aggravate serious dehydration, especially so in chronic nephritis as the nephritic syndrome with edema.

Each one of the many billions of cells in our body contain fluid and is surrounded by fluid, which controls pressure the part of pure water in proper metabolism. As previously stated, "Body fluids carry the physical and chemical characteristics required in the cells of life."

It is also an established fact that when osmotic equilibrium is disturbed, the stability and functional capacity of the cells is disturbed, as we discuss. We might add that at this time is known of the long-term effects of chemicalized water.

### Environmental Chemicals a Hazard

Of the thousands of chemicals, mostly as unsuspected additives that now adulterate our food, many are untested as to safety. A few have been tested over a period of years, and found to be definitely harmful to health. Any of them possibly is yet unheard of combinations could probably interfere with proper metabolism. As Dr. Barbara Seaman and Dr. Benton Bradberry have pointed out, many chemicals are present in the food in very minute amounts, drugs and environmental agents which create harmful hazards during their metabolism in the human body, although they are not in sufficient amounts to be toxic.

The recent discovery in Norway of a liver condition caused by the interaction of nitrates taxed as a preservative in bacon and fish with the drug commonly prescribed for tuberculosis, isoniazid, is a good example of this type of hazard. Apparently, neither the nitrates nor the drug alone are harmful, but the combination of the two in many organs and in all species of animals upon which they have been tested. In concentrations of only five parts per million, the combination of nitrates and isoniazid produced liver damage in experimental animals. It is not metabolism into nitrites, which kill off our much needed intestinal bacteria.

Another example is the National Academy of Health Sciences. This group has as the as important as radiation in causing genetic damage. Chemicals in our food, air, and water may cause birth defects and mutations which can be passed on to the next generation.

Could this possibly have had a bearing on the 1965 rate of the FDA testing the sale "any prescription only" of thalidomide because of its teratogenic effects on the unborn? Certain chemicals are known to cause cancer. Apparently, we must regard all chemicals to be ingested with suspicion, specifically those known to be toxic, cumulative, or carcinogenic.

Many of the food additives on the GRAS list are not even certified as safe for animals. The fact that they have been found safe for human use does not make safe. Of these foods that are found to be toxic, carcinogenic, or allergenic properties only one was conclusively shown to be harmless.

The recent cancer about the carbamates and monosodium glutamate are new examples of a backward law which is in effect in the food industry. We are exposed to many more chemicals added to the list and why should be harmful to safe before they make the list. As former FDA Commissioner Fleming asked, "Why should the consumer be the guinea pig?"

And, we ask, why should the human body become the testing medium for industry's chemical whim? The form of the chemicals may be slow and long-term but nevertheless they do bring harm with blood clots, carcinoma, and MSG.

### Glandular Involvement

As previously stated, the metabolism of normal body function requires delicate balance, particularly minerals, hormonal, and vitamin relations. Although the FDA has not yet recognized the importance of trace minerals, we also find that a supporting role in osmotic pressure is provided by the adrenal glands and the antidiuretic hormone (ADH) of the pituitary.

Another important physiological factor is the parathyroid hormone, which activates mobilization of calcium from the bones and controls the excretion of calcium by the kidneys. Even the calcium removed from the bones is derived from the skeleton, the liberated calcium enters the bloodstream. The calcium removed from the bones is replaced and when a supply of calcium is available from the diet. The parathyroid hormone activity has a vital action that it regulates the metabolism of both calcium and phosphorus as bone components.

### Calcium

Without doubt calcium is the most permanent thing in animal life. Calcium bearing bones and teeth have been excavated intact after the flesh of thousand of years. Even the calcium in the shells of eggs laid by birds and tooth cells continuously break down. New calcium must be assimilated to replace them as well as calcium lost by excretion. Some consider that calcium assimilation is the most important mineral problem. Of course, all minerals are important in growth, development, and maintenance of all parts of the organism become quite apparent.

An adult man must maintain a balance of about one gram of calcium per day and a growing child must ingest several about twice as much. Some authorities believe the deficiency of calcium to be greater than that of other skeletal minerals. Calcium is also necessary for the proper functioning of the heart, muscles, and nerves. It is also a factor in the coagulation of blood.

Calcium must be dissolved in the acid medium of the stomach and then absorbed in the small intestine. It is then carried by the bloodstream to the cells of the various tissues of the body. Calcium is also excreted in the feces. Metabolism is the activities of chromium and other enzymes essential for blood clotting. Muscle deficiency of calcium is also known to cause tetany. Tetany is a condition in which there is a lack of calcium in the blood serum, as in infants if which it is fed cow's milk.

In adults, deficiency in the early stage is manifested by muscular spasms (charley horses) or if more severe by convulsive seizures or latency if magnesium and/or vitamin K is also concomitantly lacking. The amount of calcium absorbed is regulated by the body's need. The rate of absorption is also affected by the amount of fat in the diet.

The Golden Rule of foods in nutrition herein stated for calcium should be accepted for foods generally. The body is a chemical laboratory and must be supplied with the raw materials to make the proteins or amino acids, the sources of calcium are bone, dairy products, egg yolk, green leafy vegetables, beans, nuts, strawberries, oranges, lemons, figs, and grapes.

### Food vs. Drug Controversy

The basic food rule, as stated, must be extended to the generally accepted recommendations for vitamin C (ascorbic acid and vitamin E (alpha tocopherol) as allocated by new research. Vitamin E is necessary in quite apparent that the vitamins ingested in food are more effective than those taken in the form of drugs, referred to as dietary supplements. As Dr. Royal Lee often stated, "Any time a food factor is concentrated it passes over the borderline and becomes a drug." Vitamins are not drugs in any sense of the word.

In other words, when food ceases to be food it also ceases to be a source of nutrition. We must conclude that in this instance, it is preferable to use a full spectrum C and alpha tocopherol (vitamin E) as a service by a pharmacological or chemical rather than a physiological action.

Apparently, more study is needed to resolve this controversy. As Dr. Edwards, FDA Director, recently stated at a hearing that "Science is changing, is complicating about the sat-sules of nutritional research." We still don't know what the minimum daily requirement is. It should be said about the requirement dependence... We still don't know whether vitamin C helps in the prevention of the common cold."

### Phosphorus

Animals and plants need phosphorus in the life processes of every cell. Normal adult humans should have a balanced amount of phosphorus and calcium. Children should have more calcium than phosphorus and calcium are the most important minerals in bone and tooth formation. In fact, the calcium-phosphorus combination comprises the largest amount of minerals in the body.

Phosphorus is required by some of the body lipids and proteins, namely the phosphoprotein and phosphatases. In the form of lecithin, it is necessary for respiration and nerve impulse conduction and in the blood clotting. As for the thought processes. Good sources of phosphorus are much the same as for calcium, plus the fact that lentils, fresh corn and cabbage in phosphorous. Also, phosphorus is found in the cell nucleus proteins or nucleic acid. Good sources of phosphorus. Suggested also are meat, bone, egg, yolk, bran, peas, beans, and peanuts. Very often an excessive amount of calcium in the phosphorous intake is harmful.

### Chlorine and Sodium

Two elements have the strong affinity for each other and therefore rarely alone. Calcium of the blood, other than potassium and magnesium, are calcium and sodium, the anions include bicarbonate, chloride, protein, and small amounts of organic acids. Sodium and chlorine are the principal electrolytes about two-thirds of the mineral. It is noteworthy that any variation in the content of chlorides in the blood plasma is reflected in the chloride content of the tissue cells. Sodium chloride is the only mineral that is added to foods in any appreciable amount. It is used with bicarbonate and chloride ions and with them functions to maintain ionic equilibrium and osmotic pressure in the tissue and body fluids.

In 1956, Dr. RVA Bergeim reported that bone functions as an electrolyte reservoir and that skeletal sodium maintains 4 percent of total body sodium. It can be mobilized in the acid-ic response to acidosis. Also, according to the National Academy of Sciences, sodium alone or in conjunction with other extracellular ions may play a role in the maintenance of the water balance and the osmolality of tissues.

The need for water and for sodium and chloride salts are closely related, although the excretory regulating mechanisms is not the same. About five grams of sodium chloride is required daily by the adult human for normal individuals and in ordinary occupations. Food sources of chlorine either as potassium or sodium chloride salts are the same as those listed for sodium. Also, chlorine is found in olives, rye, tomatoes, lettuce, celery, and kelp. Sodium is found in milk products, salmon, pike, beetroots, almonds, blenders, and pecans. Rye is an exceptionally high source of chlorine.

### Iron

Iron deficiency in man is quite common and may result in anemia. We need iron in our blood to get oxygen from the air. Even though the body contains only enough iron to make a ten penny nail, we could not have good red blood without it. The function of a higher animal becomes iron because they are dependent on the oxygen in the air. Nearly people the liver stores of hemoglobin in excess of that needed by the blood.

Organic iron is also found in the cytochrome and transfer amounts in the spleen, the intestinal mucosa, adrenals, and pancreas. Apparently, the hardworking muscles need a reserve supply of iron. An myoglobin. It is stored in all tissues but in greatest amounts in the liver, spleen, and bone marrow. Iron is absorbed in the small intestine and in alkaline gastrointestinal tract interferes with availability. A trace of copper must be present to make hemoglobin out of the available iron.

Clinically, the index of anemia is the hemoglobin content of the blood. However, iron deficiency anemia may, in fact, be present before the hemoglobin content is even deficient. Food sources of iron are liver, egg yolk, molasses, raisins, meat, dandelions, chives, cucumbers, horseradish, rye flour, walnuts, sorghum, dried fruit, potatoes, spinach, asparagus, and beans.

### Copper

Copper deficiency is associated particularly with degeneration of the nervous system, especially the inadequate maturation of the central nervous system. According to Sternbock, Elvehjem et al., minute amounts of copper have a stimulating effect on growth, respiration, and hemoglobin. It apparently functions as the part of the respiratory enzyme acetylase in the oxidation of iron.

Though small in amount, the daily intake of 2.0 to 2.5 mg is an absolute necessity for the production of red cells and hemoglobin in all vertebrates. Without copper the myelin sheath of the nerves, composed of phospholipids and cerebrosides, cannot be formed. Copper is said to be a vital factor in hemocyte carrying in the liver. It is also a factor in cell coordination and eventually poisons.

The liver is the principal reservoir of copper, although it has been found in every cell in the body. The lungs apparently store some copper for use as the activator of the enzyme, which aids in the oxygenation of iron in the blood. Copper is also necessary for the proper formation of bone matrix and other aerobic infections. Iron is the only bone anemia becomes chronic. Others fail in the normal production of melanin and usually lose the dark coloring matter of their hair. Copper deficiency in animals is also known to cause defective blood vessels, ruptures of the aorta, and other CNS deficiency. Anemia is severe and will not go away.

The blood of many invertebrates contains hemocyanin (a copper containing protein) instead of hemoglobin. Therefore, shellfish such as, abalone, clams conch, crabs, mussels, oysters, and shrimp are good sources of organic copper. Other good sources are nuts, liver, leafy vegetables, whole grains, peas, lentils, and beans.

### Iodine

This organic mineral is an absolute necessity for proper functioning of the thyroid gland. Over two thousand years ago the Greeks treated simple goiter by eating the ash of sponges, now known to be very rich in iodine. Even with this early start it is only within the last century that this condition has been recognized as a deficiency of iodine metabolism. Iodine is taken up by the thyroid gland and converted to diiodotyrosine and thyroxine.

Normally the iodine is derived from the blood concentration. Absorption occurs most efficiently in the small intestine, but it is also absorbed by other mucous membranes including the skin and lungs. It is distributed as inorganic iodide in the blood and is excreted in the urine, feces, and milk. Iodine is also found in the sweat, saliva, and sebation, and the balance in the parotid gland, the spleen, and liver. While inorganic iodine is found in the blood it is the protein-bound iodine that is found in the tissues by the circulating thyroxine.

New investigations emphasize the importance of naturally found iodine. Iodine is involved as an essential catalyst in the oxidation-reduction reactions in the cells. It is also involved in the metabolism of fats. Dr. Abraham Hoffer of Hita was demonstrated when experiments with iodine deficiency invariably had defective teeth. It is also involved in the metabolism of the mammary gland and ovaries. Dr. Hoffer also says that iodine is a factor in the cure of rheumatism, mental disturbances, and in the prevention of fragility and impetuosity. Inability to hold the glass, loss of control of the mouth muscles with drooling and loss of tissue tone generally but especially so in the circulatory system.

The demand for iodine is greatest during puberty, pregnancy, menopause, in times of stress, or when infections are present. Iodine deficiency is also known to cause sterility in both sexes. Iodine deficiency is also said to be secreted through the liver, kidneys, skin, lungs, intestines, and also in mother's milk as a deficiency. Also, a soft, imposed iodine deficiency may occur in individuals who consume a heavy carbohydrate diet with little, if any, leafy vegetables and who rarely eat fish or shellfish, which are rich in iodine.

Agronomists advise that due to the availability of iodine salts they have been leached out of the soil in some areas. Consequently, the iodine content of foods grown in this country have been lost due to the Pacific Northwest, the Rocky Mountain area, the Central Plateau area, and the Great Lakes region. Food sources of iodine are shellfish, sea foods, sea animals, cod liver oil, vegetables grown on iodine (sea-bruised), fish meal, and kelp. Or any product grown on soil having a good iodine content.

### Manganese

Manganese is essential to many reactions involved in the removal of the carbonyl groups. Therefore, it is necessary for the proper metabolism of the fatty acids and cholesterol and also for that of carbohydrate involving the final oxidation of carbon dioxide. The first and most common disease found due to manganese deficiency was "perosis" in poultry which is characterized by slipped tendons on a slipped tendon disease. Perosis is a deformity of the tibia metatarsal joint causing the tendon of the gastrocnemius muscle to slip from its normal position. Since the enzyme arginase requires manganese, a deficiency of manganese would be expected to affect the urea cycle. It has been revealed tendonitis and slipped tendon in various joints. In fact, it now has become quite common in humans. In specific the joints affected are the knees.

Results in animal experiments revealed, according to Orla, and McCollum, that the offspring of female manganese deficient animals were paralyzed. Also, they were abnormal after birth, suffer from convulsive incoordination, bend at equilibrium, and poor growth. Bears et al. found skeletal ratio to have poor growth, retardation of sexual maturity, and loss of hair. Manganese is also found to be necessary for that skeletal deficiency. Manganese is also found in the pancreas was due to the abnormal production of insulin.

Although many lesions are produced by manganese deficiency causing low phosphatase activity, its function in the growth of mammals is still being investigated. Even though manganese deficiency was the principal factor in these investigations, the same is true of a diet rich, manmade, or iodine also decreases the manganese.

In nature manganese accompanies iron everywhere. It is contained in the red blood corpuscles but in much smaller amounts than iron. Manganese is found in the liver, kidneys, pancreas, pituitary, bones, and hair. Also, in the skin, muscles, nervous system. Manganese in the growth is present in many of the quiet secretions. Food sources are shellfish, vanilla, rye flour, raw oatmeal, barley, brown rice, wheat germ, wheat bran, dried peas, kidney beans, huckleberries, most nuts but especially black walnuts."

### Sulfur

In nature organic sulfur accumulates in plants in the stem and leaves, and in fruit in the skin and seeds. In our body it forms a part of the skin, hair, nails, muscles, and cartilage. Note that the sulfur containing amino acids are cystine, isoleucine, and methionine. Sulfur is essential and of physiological importance in the anterior pituitary hormone, insulin, and the vitamin thiamine.

Food sources are poultry, shellfish, cold water fish, mustard, egg yolks, tea, peanuts, and Brazil nuts. Protein foods containing the sulfur amino acids are therefore the most important source to the body. Cooking does not usually lost in food preparation. The accumulation of uric acid in the system is often caused by ingesting foods too high in purine content. Foods high in purine content are Swiss chard, asparagus, cauliflower, and mushrooms.

### Silicon

Systemically organic silicon is found mainly in connective tissue (muscles containing about 2 percent). However, the percent contains the most, about 7 percent. Silicon is found in the aorta, lungs, liver, and kidneys. Also, in the skin. Considered a subsequent in systemic disease. It is effective as an antiseptic preventative of chemical disintegration of the tissues. Silicon is found in the cereals, the skins of fruits and vegetables and in the roots of stinging nettles. It combines with organic fluorine in the enamel of teeth.

Silicon is necessary for the formation and the skin and of cells where it acts as an insulator to prevent and retard the rapid radiation of the body heat and electrical energy. As a conductor it warms the blood and keeps the electrical energy in the body. Silicon is also necessary for the formation of the myelin sheath of the nerves and the formation of connective tissue. It is also necessary for the formation the blood and the nerves. Apparently, the myelin sheath and nervous system can be traced to a deficiency of silicon in the food or prevent also processing division into the nervous system. Silicon is also necessary for the formation of the bone matrix and for the growth of cells. And for a fullness of skin with skin muscles. Food sources are much like those for sulfur, with emphasis on raw fruits and vegetables.

### Cobalt

Cobalt is essential for the activity of certain enzymes. It is also a integral part of cyanocobalamin, a B12 molecule. Cobalt is necessary for the formation of red blood cells and for the activity of the enzyme that transfers methyl groups in proteins. B12 functions in the extracts function. Apparently, it affects a more complete utilization of iron in hemoglobin formation as a deficiency often results in anemia.

### Zinc

For a consideration of zinc, we refer you to Applied Trophology Volume 11, No. 5 (Second Quarter, 1968) entitled "Zinc, a Vital Microelement."

If further information is desired on preservatives, we refer you to "Food Chemicals Criticized" as outlined in Applied Trophology, Volume 10, No. 5, May 1966.

> *"It's strange that man, the only creature that can reason, should be the very one that is unreasonable."*
>
> —Country Parson



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+1 (866) 407-9333
+1 (970) 461-4602
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CONTACT US

Toll-Free: +1 (866) 407-9333
Local: +1 (970) 461-4602
1750 Blue Spruce Drive, Loveland, CO 80537
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